

## REFERENCES

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## ***Psectra diptera* (Burmeister) in Wisconsin (Neuroptera: Hemerobiidae)**

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*Psectra diptera* (Burmeister) has been recorded from Austria, Denmark, England, Finland, Germany, Holland, Ireland, Italy, Scotland, Siberia, Sweden, Switzerland and the Ukraine (Killington, 1936). It has been recorded from the northeastern United States, as far west as Michigan and as far south as Virginia and West Virginia, and from Ontario (Carpenter, 1940). It has also been recorded, as *Hemerobius delicatulus* Fitch, from Illinois (Hagen, 1861). Banks, 1905, refers to specimens from Ithaca, New York, the Agricultural College, Michigan, and Franconia, New Hampshire. He also mentions Fitch's specimens collected in northern Illinois in October. Recently new records have been reported from Connecticut, Maryland and Virginia (MacLeod, 1960).

In my extensive collecting of Neuroptera in Wisconsin, supported by the Research Committee of the University of Wisconsin on funds from the Wisconsin Alumni Research Foundation, I have obtained four specimens of *Psectra diptera*. All of the specimens I collected are macropterous. They were all taken in my backyard in Shorewood, a residential suburb of Milwaukee.

It is interesting to note that all four of my specimens were taken in a light trap. The trap was hung from a clothes line with the top of the funnel approximately three and a half feet from the ground. Killington suggests that both micropterous

and macropterous forms are most likely unable to fly. Mac Leod gives evidence that perhaps some individuals are able to fly. The position of my trap with reference to the ground, building and taller plants and the nature of the trap itself strongly suggest that macropterous individuals can fly.

Carpenter (*op. cit.*) gives the average wing length as 6 millimeters. Killington (*op. cit.*) gives total wing expanse as about 7 mm. and reports Banks as giving a wing expanse of 5-6 mm. Mac Leod (*op. cit.*) in measuring ten Nearctic specimens found the average length of forewing as  $3.82 \pm 0.25$  mm. and total wing expanse as  $8.57 \pm 0.54$  mm.

The following wing measurements of the specimens I collected were made with an ocular micrometer.

Date Collected	9-VIII-1957	9-VIII-1957	27-VIII-1958	2-VIII-1959
Length of forewing	5.08 mm.	3.85 mm.	4.00 mm.	4.61 mm.
Body width at mesothorax	1.08	0.77	0.77	0.92
Total wing expanse	11.24	8.47	8.77	10.14

#### LITERATURE CITED

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### Review

A MANUAL OF COMMON BEETLES OF EASTERN NORTH AMERICA. By Dillon, E. S., and L. S. Dillon. Pp. viii + 884; 554 text figures and 85 plates (4 colored). Row, Peterson and Co., Evanston, Illinois, 1961. Price, \$9.25.

Here, at long last, is a really workable manual of beetles, and one that seems to have just about every imaginable virtue.